



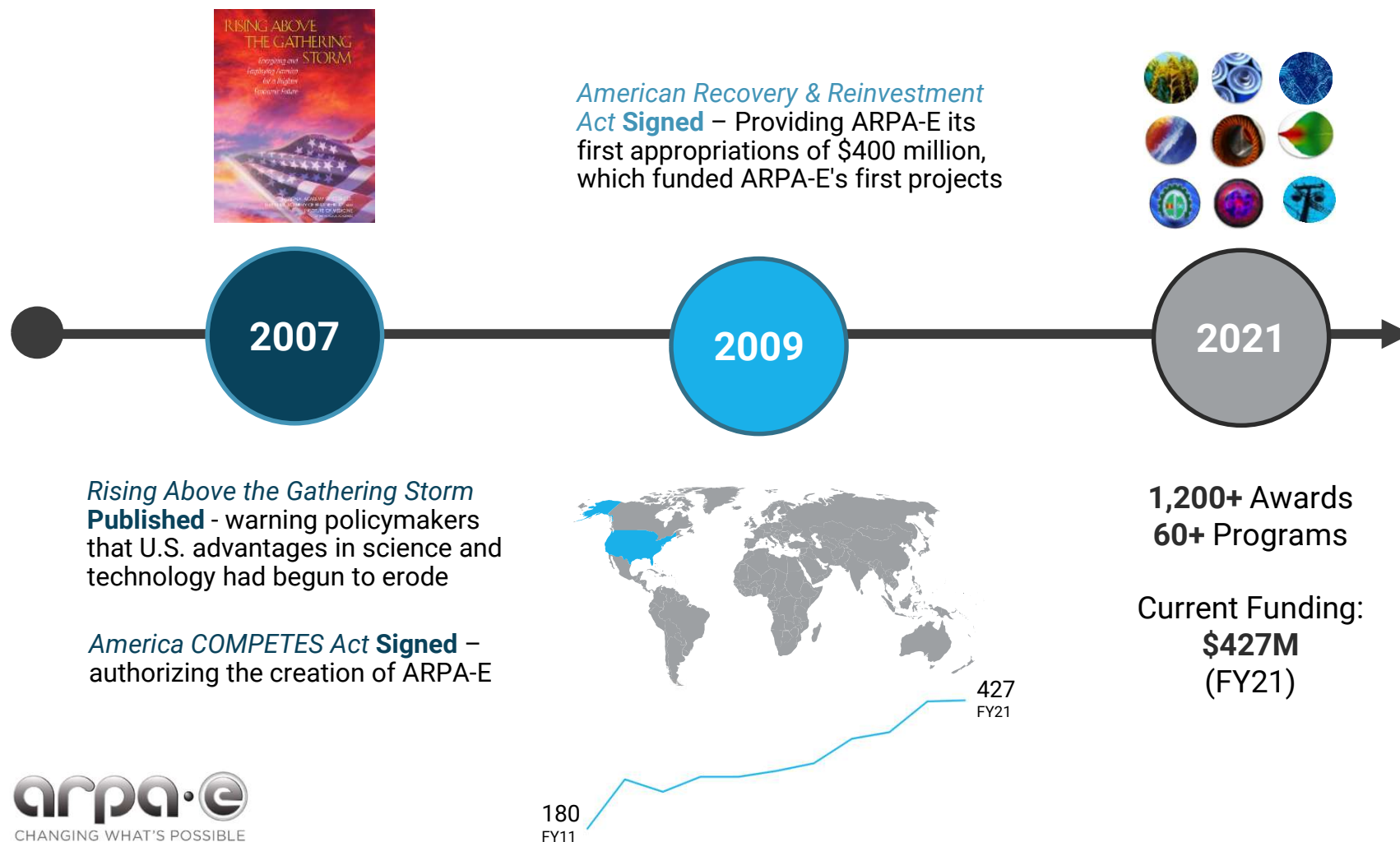
Welcome!

Dr. Jennifer Gerbi
Acting Director and Deputy Director for Technology

December 22, 2021

ARPA-E History

In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy to fund advanced energy R&D.



ARPA-E Mission

Goal 1: To enhance the economic and energy security of the United States through the development of energy technologies that—



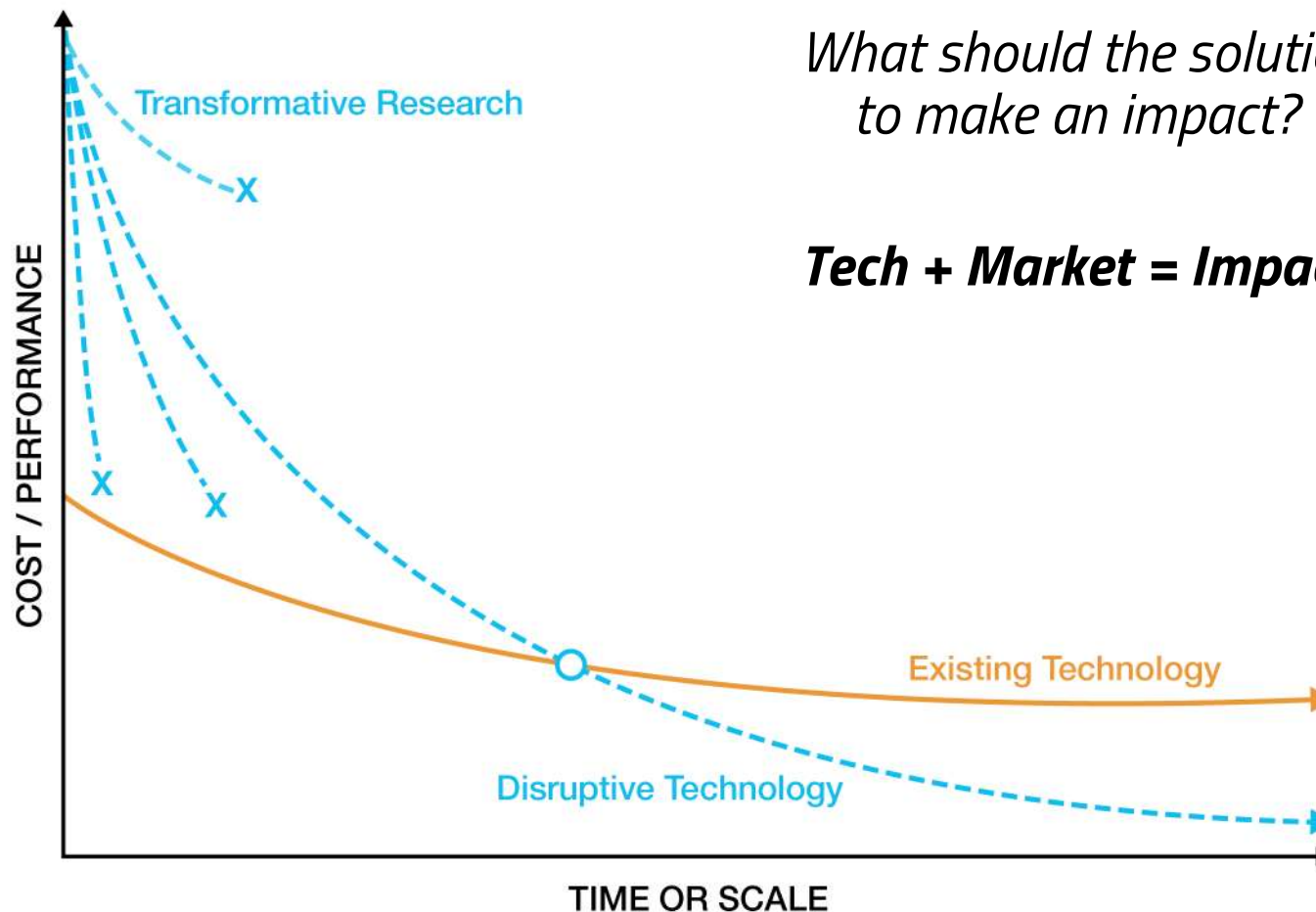
Goal 2: To ensure that the United States maintains a technological lead in developing and deploying advanced energy technologies.

We are high-risk, high reward

*What problem should be solved...
And why?*

*What should the solution look like
to make an impact?*

Tech + Market = Impact























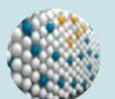






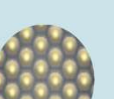









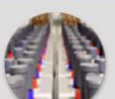
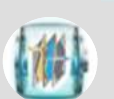













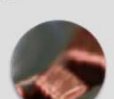





ARPA-E: What makes us different

Our Culture Enables our Mission.

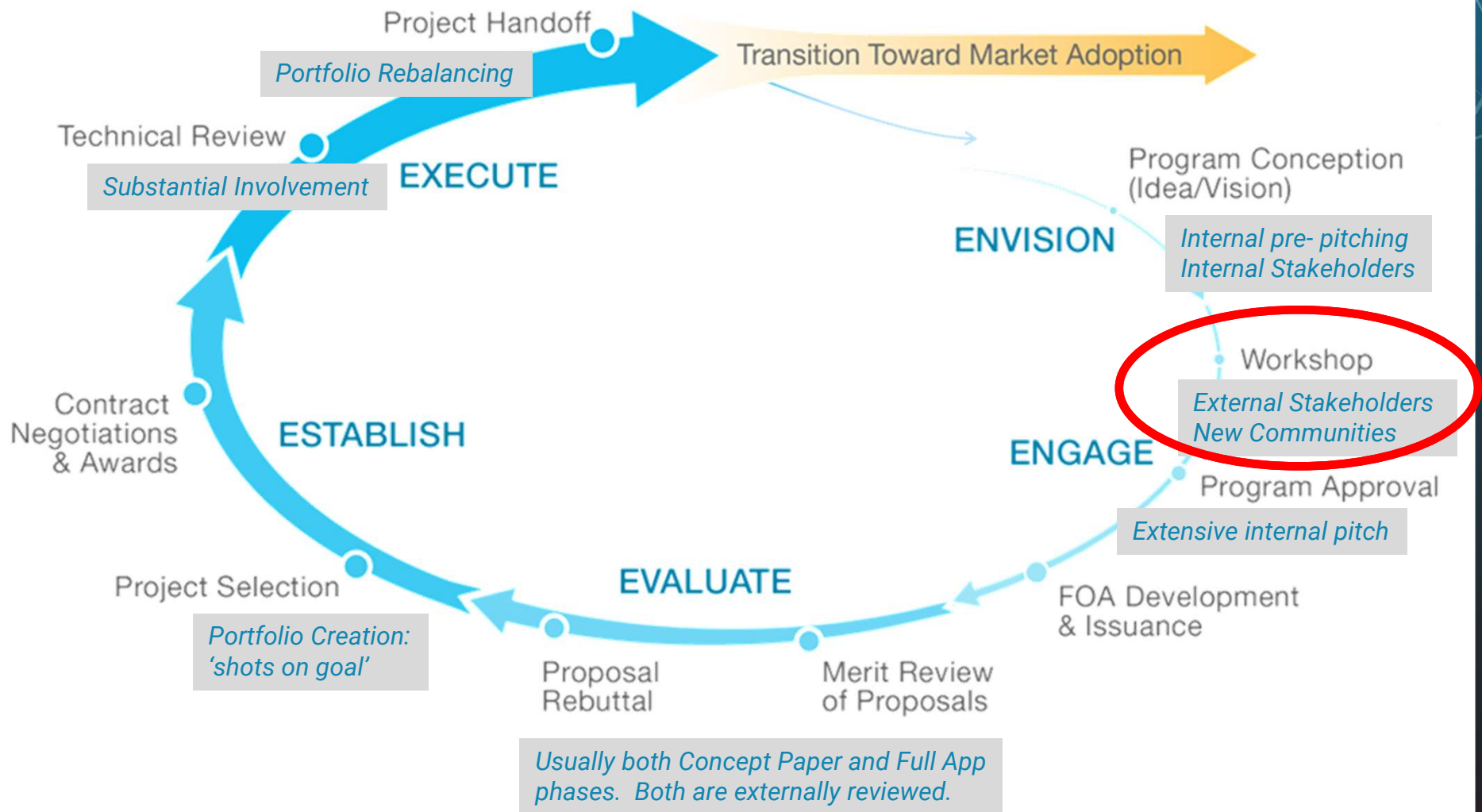
- Startup-esque approach
- Term limited, core group of empowered Program Directors
- Term limited T2M Advisors, PhD Fellows work seamlessly with Program Directors
- Collaborative instead of competitive
- Structure: Flat, lean, no 'roadmaps', no top-down direction
- Comfort with risk and ambiguity crucial – TRUST is essential.



	ELECTRICITY GENERATION & DELIVERY	EFFICIENCY	TRANSPORTATION
ACTIVE	 SHARKS  BETHE  GAMOW	 FLECCS  REPAIR  DIFFERENTIATE	 ULTIMATE  ASCEND
	 PERFORM  GEMINA  ATLANTIS  DAYS	 BREAKERS  HITEMMP  SENSOR	 REEACH  SMARTFARM
ALUMNI	 MEITNER  INTEGRATE  IONICS  GRID DATA	 CIRCUITS  PNDIODES  ENLITENED  ROOTS	 MARINER  REFUEL  NEXTCAR
	 NODES  MOSAIC  GENSETS  ALPHA	 SHIELD  ARID  MONITOR  DELTA	 TERRA  REMOTE  RANGE
	 CHARGES  REBELS  FOCUS  SOLAR ADEPT	 SWITCHES  METALS	 TRANSNET  AMPED  MOVE
	 HEATS  GENI  GRIDS  IMPACCT	 REACT  BEETIT  ADEPT	 PETRO  ELECTROFUELS  BEEST

+ OPEN 2009, 2012, 2015, 2018, & 2021 Solicitations
+ Seedlings, Competitions, Complimentary Exploratory Topics
+ SCALEUP 2020

Life of an ARPA-E Program



ARPA-E Impact Indicators

Since 2009
ARPA-E has
provided

\$2.93 billion

in R&D funding to
more than **1,270 projects**



183 projects

have attracted
more than

\$7.6 billion

in private-sector follow-on funding



109 companies

formed by
**ARPA-E
projects**



266 projects

have **partnered
with other
government
agencies**
for further
development



4,871

peer-reviewed
journal articles
from ARPA-E
projects



789 patents

issued by U.S.
Patent and
Trademark Office



253 licenses

reported from
ARPA-E projects



17 exits

market valuations worth

\$19.4 billion

from mergers, acquisitions, and IPOs



We want to hear from YOU.

There is a reason you are all here.

We also want this to be a new community –
please reach out to each other!



U.S. DEPARTMENT OF
ENERGY

<https://arpa-e.energy.gov>